

# **PRODUCT INFORMATION**

## **Clinical Center Standardization Committee**



### **Abbott GemStar® Reimplementation Perspective**

**JANUARY 2004 (1)**

#### **BACKGROUND**

The Abbott GemStar® ambulatory pump replaced the Abbott Aim® ambulatory pump on 05-19-2003.

#### **CONCERN**

ORS identified two unanticipated issues: proximal alarms and priming/ infusion of Cremophor-based medications, such as BMS.

#### **MANAGEMENT**

For several months an interdisciplinary team worked with Abbott Medical Department to investigate all possible variables related to these two issues.

#### **INVESTIGATION OUTCOME**

1. Inconsistency in amount of overfill in IV Bags. The overfill led to proximal alarms when the pump was not specifically programmed for overfill.
2. An inability to definitively identify any specific variable associated with infusion of Cremophor based medications. A tremendous amount of time was spent investigating the reason for the Cremophor-based issues. Multiple attempts in-house and at Abbott Medical Department to duplicate the issue failed. However, lack of consistent priming practice was identified.

#### **PRACTICE CHANGES MADE FROM INVESTIGATION OUTCOME**

1. Consistency in amount of overfill has been addressed by Pharmacy:
  - A. No overfill without a physician's order.
  - B. The label for each bag clearly identifies the amount of overfill, if any.
  - C. No overfill in PCA bags. The priming volume will be 'lost' in the tubing. The pump program must be set appropriately.

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- D. A minimum of 3 CC and a maximum of 5 CC for bag priming is allowed.
- E. EPOCH overfill standardization to 25 CC overfill.
- 2. Etoposide Volume and Infusion Rate 500 CC Bag: 500 CC bags have 150 MG to make 528 CC Volume, to be infused for a rate of 22 ML per hour for a 24-hour infusion.
- 3. Etoposide Volume and Infusion Rate 1000 CC Bag: 1000 CC bags have 151 MG to make 1056 CC Volume, to be infused for a rate of 44 ML per hour for a 24-hour infusion.
- 4. Responsibility to program the pump to include the specific OVERFILL AMOUNT PLUS PRIMING VOLUME is addressed by NCPS in GemStar® training sessions
- 5. Clear guidelines for priming Cremophor-based infusion lines have been developed.

### CURRENT ACTIVITY

Training Period: JANUARY 20<sup>th</sup> through FEBRUARY 8<sup>th</sup>

During this time:

GemStar® pump will be used for TRAINING ONLY

GemStar® pump/ IV Tubing cannot be ordered on Visual Supply Catalog

Patient bag infusions will not have GemStar® IV Tubing

Reimplementation Date: Monday, FEBRUARY 9<sup>th</sup>, 8:30 AM

COMING SOON: DETAILS IN PRODUCT UPDATE.

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Abbott GemStar® Specialists Available 24/ 7 with questions by pager:

1-800-918-9615. How to Page: Dial '1-800-918-9615'. After the 'beep' enter 3-digit area code and the 7-digit phone number followed by the '#' button.